Bedienungsanleitung
Operating instructions
Mode d'emploi
Istruzioni d'uso
Gebruiksaanwijzing
Bruksanvisning
Instrucciones de manejo
Instrução de serviço

München RD 104

BLAUPUNKT

Bosch Telecom

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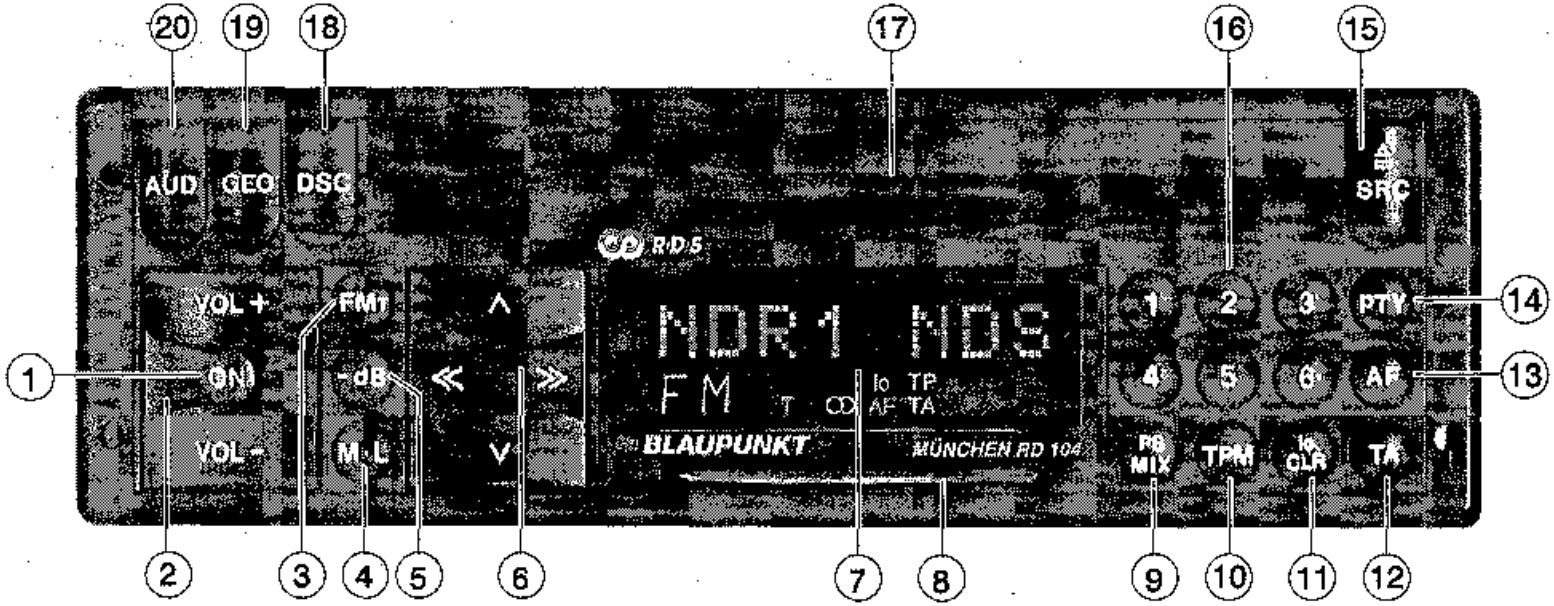
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19
18
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15
AUD
GEO
DSC
SRC
RDS
VOL +
FM1
1
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PTY
14
ON
-dB
4
5
6
AF
13
VOL -
M.L
NDR1 ND9
FM
T
lo
TP
AF
TA
BLAUPUNKT
MÜNCHEN RD 104
RB
MIX
TPM
lo
CLR
TA
1
2
3
4
5
6
7
8
9
10
11
12

Contents

Short description 18

Important notes 20
What you must know! 20
Traffic safety 20
Installation/hook-up 20
Optical indication of theft protection ... 21
KeyCard 21

Radio operation with RDS (Radio Data System) 21

AF - alternative frequency 21
REG - Regional 22
Selecting the waveband 22
Automatic seek tuning ∧/∨ 22
Manual seek tuning << / >> 22
Adjusting the seek tuning sensitivity 22
Stereo - mono switch (FM) 23
Changing the memory bank (FM) 23
Storing stations 23
Storing the strongest stations automatically with Travelstore 23
Recalling stored stations 23
Sampling stored stations briefly with Preset Scan 23
Sampling stations briefly with Radio Scan 24
PTY 24
PTY and seek tuning 24
PTY and scan 24

Reception of traffic announcements with RDS-EON (Enhanced Other Networks) 24

Priority of traffic announcements ON/OFF 24
Warning beep 25
Switching the warning beep off 25
Automatic seek tuning start 25
Adjusting the traffic message and warning beep volume 25
Station names ST NAME 25

CD operation 26

Inserting the disc 26
Ejecting the disc 26
Selecting a track 26
Storing tracks with TPM 26
CD reproduction with TPM 26
Clearing the TPM memory 26
Clearing the TPM memory with DSC 27
Sampling tracks automatically with CD SCAN 27
The Mix function 27
CD naming 27

DSC programming 28

Survey of DSC default settings 30

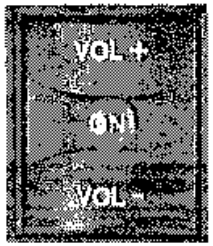
Appendix 30

Technical data 30

ENGLISH

Short description

① and ② Amplifier



To turn on the set: Press the **ON** button.
To turn off the set: Hold down the **ON** button for about 1 sec. Use **VOL+/ VOL-** to control the volume.

③ FM•T - FM, Travelstore

To select one of the FM memory banks I, II, and "T" (Travelstore).
To change the memory bank:
Press button until the desired level is indicated in the display. To store the six most powerful stations automatically with Travelstore:
Store: press **FM•T** until seek tuning starts in the display.
Recall: press **FM•T** until "T" is indicated in the display. Then briefly press one of the presets **1, 2, 3, 4, 5, 6**.

④ M•L

To change between medium wave (MW) and long wave (LW) frequencies.

⑤ -dB

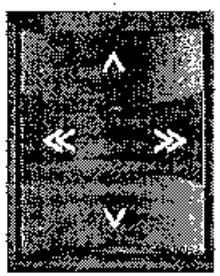
Press the **-dB** button to instantly mute the audio source. Return to normal volume by pressing the **-dB** button once again or by activating the **Vol+** button.
To change the -dB value:
Adjust the desired volume with the **Vol+/ Vol-** button. Confirm your entry by pressing the **-dB** button for about 2 seconds.

⑥ Rocker switch

Station search

up

down in short intervals



up in short intervals

down

Extra functions:

Track ∧/∨:	Upwards/downwards
CD <</>> :	Cue/review
In the **DSC mode:**	Select function and program parameter.
In the **AF mode:**	Use the <</>> button to scroll through the programs of a radio network, e.g. from NDR1 to NDR4 (North German broadcaster).

⑦ Display

Waveband
Station name
Memory bank

Program type in the PTY mode

In the DSC mode it is possible to name a disc, e.g. (VIVALDI)

CD playback time

⑧ KeyCard

Insert the KeyCard (contact area showing up) into the corresponding slot above the flashing KeyCard tongue. (See also "DSC programming").

⑨ PS/MIX

Radio functions:

When pressing the button for less than 2 seconds, the system will briefly play all stations stored on the preset buttons. When pressing the button for more than 2 seconds, the system will briefly play all FM stations to be received.

CD functions:

Pressing the button for less than 2 seconds activates the **MIX** function. All CD titles will then be played at random. Pressing the button for more than 2 seconds activates the CD-SCAN function. The system will then briefly play all CD titles.
To cancel the CD-SCAN function, press the **PS/MIX** button once again.

⑩ TPM

(Track Program Memory)
To select and store the titles for CD reproduction. The system allows to program up to 30 discs in advance. Read through chapter "TPM programming".

⑪ lo·CLR

Radio functions:

Press button for less than 2 seconds to change the seek tuning sensitivity. Press button for more than 2 seconds to switch to mono reproduction.

CD functions:

To delete CD titles from the TPM memory.

⑫ TA (priority for traffic announcements)

When "TA" lights up in the display, the system will only play stations offering traffic information.
"TA" on/off: press the TA button.

⑬ AF button (alternative frequency) during RDS operation

When "AF" lights up in the display, the system will automatically seek a frequency offering better reception of the same RDS program."AF" on/off: press the AF button briefly.When pressing the AF button for about 2 seconds, the display will show REG-ON or REG-OFF (regional programs).

⑭ PTY button

Use this button to enter the PTY mode. In this mode, the preset buttons are used to select different program types, e.g. SPORT. The system will then only seek stations offering sport programs.

⑮ SRC·CD - EJECT

(SRC = source) When listening to a CD, you can use this button to shift between radio and CD operation. To eject the disc, keep the button depressed for more than 1 sec.

ENGLISH

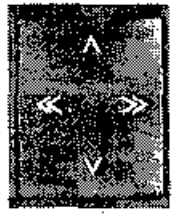
⑯ **1, 2, 3, 4, 5, 6 - preset buttons**
You can store 6 stations on each FM memory bank (I, II, and "T") and another 6 stations on MW and LW each.
To store a station: Press button during radio operation and hold down until the radio resumes play.
To recall a station: Select the waveband. With FM, select the desired memory bank and press the corresponding preset button.

⑰ **CD slot**
When inserting a disc with the label side facing up, it will be automatically transported to the playing position. The system will switch from radio to CD operation.

⑱ **DSC (Direct Software Control)**
Use the DSC function to adapt a number of programmable basic settings to your personal needs. For more information, read through chapter "DSC programming".

⑲ **GEO**

Fader front

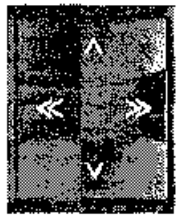
Balance left  Balance right

Fader rear

⑳ **AUD**

Treble

+

Bass -  Bass +

-

Treble

To activate or deactivate the Loudness setting, press the **AUD** button for more than 2 seconds.

Important notes

What you must know!

Before starting to use your new car radio, you should carefully read through the information on "Traffic safety".

Traffic safety

As the driver of a motor vehicle, it is your responsibility to pay attention to the traffic situation at all times. Never use your car radio in a way that could distract you.
Please keep in mind that you travel a distance of 14 m per second at a speed of only 50 km/h.
Should the traffic situation become particularly demanding, we would advise you not to use the radio.
When adjusting the volume, make sure that you are still able to hear all sounds coming from outside of the vehicle, so that you are always able to react to warning signals, for example from the police or the fire brigade.

Installation/hook-up

If you like to install your new car radio by yourself or add other audio components to the existing ones, then please read carefully the enclosed instructions on installation and hook-up.

Optical indication of theft protection
When the car is parked, you can let the KeyCard tongue flash in order to show that the set is theft-protected. DSC allows you to adjust two different settings: LED ON or LED OFF.
For more information, please read through chapter "DSC programming - CODE-LED".

KeyCard
This car radio cannot be operated unless the corresponding KeyCard is inserted. The KeyCard code is stored in the set.
Turn on the set and introduce the KeyCard completely. The car radio is now ready for operation. When inserting a wrong KeyCard, the display will show "----".
After approximately 10 seconds the display shows **CARD ERR**.
In this case do not go on operating the set until you have the corresponding KeyCard available.
Never try to pull out the KeyCard by force. First, slightly push in the card (which will then be released), and then remove it.
Should you have lost your KeyCard, or if it has become damaged, please contact one of our authorised service partners on presentation of the car radio pass.
You can find such service providers listed in the car radio service register 🕮. In case of doubt, please contact the central service centre in your country for more information on the next KeyCard service facility in your vicinity.
The following functions can be individually stored with the KeyCard (1 and 2): bass, treble, balance and fader settings, preset stations, Loudness, program type (PTY), TA (volume of traffic announcements).
Moreover, the parameters adjusted last such as waveband, station, TA priority or seek tuning sensitivity remain stored.
Hence, you will always find your basic settings adjusted again after you have inserted your KeyCard.

Radio operation with RDS

(Radio Data System)

To make radio reception even more convenient, an ever increasing number of FM radio stations broadcast additional information in parallel with their normal program via the Radio Data System.
As soon as a radio program can be identified, the station name and possibly also a regional identifier will appear in the display, e.g. "NDR1 NDS" (local radio program in Lower Saxony, Germany).
With RDS, the preset buttons turn into program buttons. Now you know exactly to which program your set is tuned in, making it absolutely easy to find the desired station quickly.
But RDS even offers you more advantages:

AF - alternative frequency
The AF function makes sure that the strongest frequency of the selected program is always tuned in automatically.
This function is activated if "AF" lights up in the display.
To switch AF on/off:

- Press **AF** briefly.

During seek tuning for the frequency offering the best reception of the selected program, the radio is muted for a moment.

If "SEARCH" appears in the display when turning on the set or when calling up one of the stored frequencies, the set is automatically searching for an alternative frequency. "SEARCH" goes out as soon as the system has found an alternative frequency or after the frequency band has been scanned completely.
Should the reception quality of the selected program become too bad,

- tune into another program.

REG - Regional
The AF function can also be used to acivate and deactivate the regional function.
At some times of the day, larger radio stations split up their main program into regional program versions offering local information.
If you want the radio to lock onto a regional program,

- hold down the **AF** button for about 2 seconds.

The display will show "REG ON".

If you leave the service area of the regional station tuned in, or if you wish to use the entire RDS service again, switch to "REG OFF".

- Hold down the **AF** button for about 2 seconds until "REG OFF" is displayed.

If "REG ON" is activated, the display will show "REG ON" each time the radio is switched on.

Selecting the waveband

With your car radio you can select between the following wavebands:
FM 87.5 - 108 MHz
MW 531 - 1602 kHz, and
LW 153 - 279 kHz

- Select the desired waveband by pressing the **FM•T** or **M•L** button.

To switch between MW and LW:

- press **M•L**.

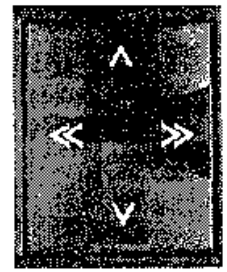
Automatic seek tuning ∧/∨

- Press ∧/∨. The radio will automatically tune into the following station.

If you keep the upper or lower part of the rocker switch ∧/∨ depressed, seek tuning speeds up in upwards or downwards direction.

up

down in short intervals



up in short intervals

down

Manual seek tuning <</>>
(prerequisite: **AF** is switched off!)

- Press << or >> to change the frequency in small steps in upwards/downwards direction.

Hold down the right or left part of the rocker switch to speed up this procedure.

Adjusting the seek tuning sensitivity

The set allows you to modify the seek tuning sensitivity.
If **"lo"** is indicated, the radio will only pick up strong stations (low sensitivity).
If **"lo"** is deactivated, the radio will also pick up less powerful stations (higher sensitivity).
The degree of sensitivity can be separately adjusted for both levels (see chapter "DSC programming").

Stereo - mono switch (FM)

You can switch to mono when the reception quality becomes poor:

- Press **lo** for approximately 2 seconds.

During mono reception the stereo symbol ∞ in the display will go out.
Each time the car radio is switched on, the radio will be automatically set to stereo reception.
It will automatically switch to mono when the reception quality becomes poor.

Changing the memory bank (FM)

You can shift between the memory banks I, II, and T to store and recall preset stations. The selected memory bank is indicated in the display.

- Press **FM•T** until the desired memory bank lights up in the display (press repeatedly if necessary).

Storing stations

Using the preset buttons **1, 2, 3, 4, 5, 6** you can store six stations on each FM memory bank (I, II, T).
In the MW/LW range you can store six stations each.

- Press the **FM•T** or **M•L** button to select the waveband.
- Use the rocker switch to tune to a station (either automatically ∧/∨ or manually <</>>).
- Press the desired preset button and hold it down. The radio will be muted and resumes play after approximately 2 seconds.

Now the station is stored. The activated preset button is indicated in the display.
Note:
If you tune into a station which has already been stored, the corresponding preset button and the memory bank will start flashing in the display for a short while.

Storing the strongest stations automatically with Travelstore

You can use the Travelstore memory bank to automatically store the six strongest FM stations sorted on the preset buttons according to their signal strength. This feature is especially useful when travelling, because it will always give you the most powerful stations at a fingertip as you pass through the various reception areas.

- Press **FM•T** for at least 2 seconds.

The radio will seek the most powerful FM stations and store them on the "T" memory bank (Travelstore). As soon as this procedure has finished, the first station will be played.
FM stations can also be stored manually on the Travelstore memory bank (see "Storing stations").

Recalling stored stations

You can recall any stored station by pressing the corresponding preset button.

- Press **FM•T** or **M•T** to select the waveband. For FM, also choose the corresponding memory bank by pressing **FM•T** until the desired bank is indicated in the display.
- Briefly press the corresponding preset button.

Sampling stored stations briefly with Preset Scan

With this function you can briefly sample all preset stations.

- Press **PS**.
  The radio will briefly play all the stored stations of the tuned in waveband one after another.

On FM, the system will sample the stations of one of the memory banks I, II, or T, depending on which bank was selected before. Free preset buttons will be skipped.
To switch off Preset Scan:

- Press **PS** once again.
  The radio will continue to play the currently sampled station.

Sampling stations briefly with Radio Scan

Starting with the currently played station, you may let the system sample the following ones one after another.

To activate Scan:

- Press **PS** for about 2 seconds.The sampled frequency or the station name starts flashing in the display. During the actual search process, "SCAN" is flashing.

To continue listening to a sampled station/switch Radio Scan off:

- *Briefly* press **PS**.

If no station is selected during the search operation, the scan function will be automatically switched off after the entire frequency band has been passed through. The radio will then return to the initial station that was being played when the scan function was activated. For more information, please also refer to chapter "DSC programming - SCANTIME".

PTY

The PTY signal is transmitted along with the RDS data telegram and contains information on the program type. Program types e.g. are: news, current affairs, information, sport, etc. This enables you to choose a certain type of program according to your personal needs. With PTY you are prepared for the future of RDS.

- Press the PTY button.

You can now use the preset buttons to choose one out of six different program types.

In the PTY mode the preset buttons no longer have their original function (see also chapter "DSC programming - PTY SET").

PTY and seek tuning

First switch on the PTY mode and choose a program type (e.g. 4 = sports). When the seek tuning function is activated via ∧/∨, the radio will only capture those stations which transmit the selected PTY code. If no such station is found, the radio returns to the original mode. The display shows "SPORT" for approximately 3 seconds.

PTY *and scan*

First switch on the PTY mode and choose a program type (e.g. 4 = sports). When the scan function is activated, the system will only sample those stations which transmit this PTY code.

Reception of traffic announcements with RDS-EON

(Enhanced Other Networks)

Many FM broadcasters provide their service area with traffic messages at regular intervals.

All traffic program stations transmit a special signal in parallel with the radio program, which is processed by the car radio. As soon as such a signal is received, the display shows **"TP"** (Traffic Program).

Other radio stations do not air traffic announcements by themselves, but offer the possibility to receive the traffic announcements of another station within the same radio network. In this case, **"TP"** also lights up in the display.

"TA" is displayed, if the priority for traffic announcements is activated.

If a traffic announcement is aired, your radio will automatically switch to the traffic program for the duration of the message and return to the previous station after the end of the message.

Priority of traffic announcements ON/OFF

If the priority of traffic announcements is activated, **"TA"** lights up in the display. To switch the function on/off:

- Press the **TA** button.

When pressing TA while a traffic announcement is being played, the radio stops playing the message and switches to the previous mode. The priority for all subsequent announcements remains active.

Warning beep
Whenever you leave the reception area of the traffic program station you have tuned into, you will hear a warning beep after approximately 30 seconds.
This warning beep will also be released when pressing a preset button on which a station without traffic program is stored.

Switching the warning beep off

a) Tune to another traffic program station:
   - Press the rocker switch (6), or
   - press a preset button with a station offering traffic information.

or

b) Switch the priority of traffic announcements off:
   - Press **TA**.

In the display, the "TA" indication goes out.

Automatic seek tuning start
(CD operation)
If you leave the reception area of your traffic program while you are listening to a CD, the car radio will automatically tune into another traffic program station.
If no such traffic program station is found within approximately 30 seconds, CD reproduction will be interrupted and you will hear a warning beep. To switch off the warning beep, proceed as detailed above.

Adjusting the traffic message and warning beep volume
The traffic message and warning beep volume is adjusted at the factory. However, you can change this default setting using the DSC function (see "DSC programming - **TA LEVEL**").

Station names ST NAME

When selecting a station, the display will show its frequency and, in case of an RDS station, also the station name.
With this set it is now possible to replace the frequency indication of a stored non-RDS station by a station name indication of max. 8 characters.
The station to be named has to be stored on one of the memory banks I-II.

The following has to be taken into account:

- Press the DSC button. Then press ∧/∨ until "ST NAME" is indicated in the display.
- Use the <</>> button to activate the entry mode.
- Use the ∧/∨ button to select the characters.

The display will show one after another the capital letters (A-Z), the umlauts, the special characters, and the numbers (0-9).
Once you have finished your entry, press the -dB button for about 2 seconds.

- Press the DSC button to quit the DSC mode.

Each time the named station is selected, the specified name will appear in the display.
With RDS stations, the RDS indication always has priority. If you have named an RDS station, the specified name will first appear in the display for about 3 seconds after the corresponding preset button was pressed. Afterwards it will be replaced by the transmitted RDS name. The station name is deleted by storing another station on the preset button.

CD operation

Inserting the disc

- Switch on the set.
- Insert the CD (label side facing up) without applying force.

The disc is automatically pulled into the set to reach the playing position. CD reproduction starts.

Ejecting the disc

- Press the CD-Eject button (15) for more than 1 second. The CD is ejected.

To protect the CD mechanism, the automatic insertion and ejection of the disc must not be impaired in any way.

Selecting a track

As soon as the disc is inserted, the activated CD functions will be shown in the display. If the "TPM" indicator is off, all CD tracks will be played.

If "TPM" is on, only the tracks programmed with TPM will be played. For information on how to program the desired tracks, read through section "Storing tracks with TPM". Use the ∧ or ∨ rocker switch to select the desired title.

- Press rocker switch ∧ to skip titles.
- Press rocker switch ∨ to repeat titles.

If the ∨ rocker switch is only pressed once, the system will go back to the beginning of the currently played title and repeat it, provided that this track has at least been played for 5 seconds.

The rocker switch is designed as a sequence switch, i.e. several tracks can be skipped at a time by pressing it repeatedly. The display shows **T** (track) and the corresponding number of the currently selected track.

Storing tracks with TPM

- Insert the disc.
- Select a track using the ∧/∨ rocker switch. The track number is shown in the display.
- Press TPM until a beep tone is released or until the set resumes play.

Now the title is stored.

Then select the next track with the ∧/∨ rocker switch and store it with "TPM" as described above.

You can store tracks at any time during CD reproduction. For this, "TPM" must be switched off. Proceed in the same way for the track programming of the other discs.

CD reproduction with TPM

- Insert the disc.
- The TPM function has to be switched on (TPM on/off with the **TPM** button).

The tracks stored with TPM will be played in ascending order. All tracks which were not stored will be skipped.

Clearing the TPM memory

Using the CLR (clear) button you can either clear individual tracks, all tracks of a disc, or the entire TPM memory.

To clear the TPM programming, "TPM" must be switched on. The display will then show "TPM". If the TPM memory is empty, the display reads **"NO TPM"**.

a) Clearing a track programmed with TPM:

- Insert the corresponding disc.
- Switch on TPM.
- Use the ∧/∨ rocker switch to select the track to be cleared.
- Press the CLR button for approximately 2 seconds until "CLEAR" is shown in the display. Now this track is cleared from the TPM memory.

b) Clearing the TPM memory for a CD

- Insert the corresponding disc.
- Switch on TPM.

- Press the CLR button for approximately 8 seconds until "CLR CD" is shown in the display.

The TPM memory for this disc is cleared.

c) Clearing the TPM memory for all CDs

- Insert the corresponding disc.
- Switch on TPM.
- Press the CLR button for approximately 14 seconds until "CLR TPM" is shown in the display.

The TPM memory for all discs is cleared.

Clearing the TPM memory with DSC

The DSC function allows you to completely clear one or several discs from the TPM memory.
Use the update function to confirm the TPM programming for all discs to be maintained in the TPM memory.

- Press DSC.
- Press ∧/∨ until "CD UPD" (update) appears in the display.
- Press the <</>> button until "LOAD CD" is displayed.
- Now insert the disc to be maintained in the TPM memory. The display shows "READ".
- The display shows "NEXT CD".
- Press EJECT and insert the next disc.

Go through this procedure again for all discs you wish to maintain in the TPM memory.

- Finally press the TPM button for more than 2 seconds.
- Quit the DSC mode.

All the discs inserted during this procedure will be remained in the TPM memory. The other discs left out are deleted.

Sampling tracks automatically with CD SCAN

This function allows you to sample all CD tracks one after another.
To activate the scan function,

- press the **PS** button for about 2 seconds.

The display shows **"CD SCAN"**.
The following tracks will be scanned one after another.
If "TPM" is activated, the set will only sample the tracks stored in the TPM memory.
To continue listening to the sampled track,

- press the **PS** button once again. The set will then continue to play the track currently being sampled.

See also chapter "DSC programming - SCAN-TIME".

The Mix function

When the Mix function is activated, the CD tracks will be played at random. The display will then show "Mix".
If "TPM" is activated, the set will only play the tracks stored in the TPM memory. To skip a title, press button ∧.
Press the Mix button to switch "Mix" on and off.

CD naming

This function allows you to name as many as 30 discs. Each time the corresponding disc is inserted, the specified name will then be shown in the display (e.g. VIVALDI).
To start the entry:

- Press the **DSC** button.
- Set **"CD DSP"** to "NAME".
- Press the ∧/∨ button until **"CD NAME"** is displayed.
- If no disc is inserted, the system will display **"LOAD CD"**.
- Insert the disc to be named.

The first underscore character is flashing.

- Now use the ∧/∨ button to select a character.

DSC programming

The display will show one after another the capital letters (A-Z), the umlauts, the special characters, and the numbers (0-9).

- Use the ∧/∨ button to move to the next character and make a selection.

It is possible to specify a total of 8 different characters.
To finish your entry:
Press the **-dB** button to store the entry and then either the DSC button to quit the DSC mode, or EJECT to name the next disc.
An old name can be deleted by overwriting it with a new one.

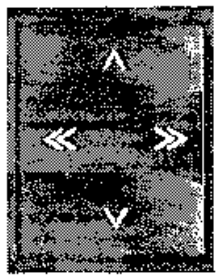
This car radio offers direct software control (DSC) to adapt a number of default settings to your personal needs and to store them.
In the following you will find an overview of all the default settings adjusted at the factory.
To change a programmed parameter,

- press **DSC.**

Then use the rocker switch to select and change the functions described below.
The display shows the the adjusted condition.

Select function

setting Change -



setting Change -

Select function

CD NAME Use this function to name your discs.

ANGLE Use one of the values -1, 0, or +1 to adapt the individual viewing angle.

BEEP Achnowledgement tone for all functions where the respective button has to be hold down for more than 2 seconds to activate the function.
Adjust volume between 0 and 9 (0 = OFF).

BRIGHT The display brightness can be adjusted between 1 and 15. You may set one day and one night adjustment.
Brightness of night illumination:
Switch on the vehicle's lighting system and program the brightness value. For this, the illumination connector has to be hooked up to the electric system of the car.

COLOUR COLOUR 0 = green
COLOUR 15 = red

CD DSP Use this function to display the NAME or the TIME.

LED ON You can select between LED ON and LED OFF.
When setting LED ON, the KeyCard tongue will flash for optical theft protection when the set is switched off and the KeyCard removed.

LOUDNESS When listening at a low level, the loudness function will create a more natural sound by emphasizing the low frequency range.
LOUD 1 - low boost
LOUD 6 - strong boost

PTY LANG Use this function to select the language for the PTY indications in the display. Choose between DEUTSCH or ENGLISH.

PTY SET Use this function to change the default allocations of the preset buttons.
Press the preset button to be changed. Use the rocker switch <</>> to select the desired program type and press the preset button once again.

SCANTIME Use this function to specify the scan time (in the CD and radio mode). Choose a value between 5 and 30 seconds.

S-DX 1 Use this function to adjust the seek tuning sensitivity for distant reception.
DX. 1 - high sensitivity
DX. 3 - low sensitivity

S-LO 1 Use this function to adjust the seek tuning sensitivity for local reception.
LO. 1 - high sensitivity
LO. 3 - low sensitivity

SPEECH In the future, the RDS broadcasters will make a distinction between music and speech programs. Use the SPEECH function to separately adjust the sound settings for speech programs.

ST NAME Use this function to name the respective stations.

TA LEVEL Use this function to adjust the volume of traffic announcements between 1 and 9. The announcement will be played with the specified volume.

CD UPD Use this function to update the TPM memory. The display first shows "**LOAD CD**" and "**READY**" after the disc has been inserted.
Once the reading process for the disc is finished, the system displays "**NEXT CD**".

VOL FIX Use this function to adjust the initial volume when the set is switched on.

To quit the DSC mode and store the setting:

- Press DSC.

Appendix

Survey of DSC default settings

ANGLE	0
BEEP	4
BRIGHT	15
COLOUR	7
CD DSP	TIME
LED	ON
LOUDNESS	3
PTY LANG	ENGLISH
SCANTIME	10s
S-DX	2
S-LO	2
SPEECH	0
TA LEVEL	5
VOL FIX	20

Technical data

Amplifier:

Output power:	4 x 20 W RMS according to DIN 45324 4 x 25 W music according to DIN 45324
FM sensitivity:	0.9 µV at 26 dB S/N ratio
Frequency response:	30 - 16,000 Hz (-3 dB)
CD frequency response:	20 - 20,000 Hz (-1 dB)

Subject to modifications!